

In re application of:

Alderson et al.

Appl. No.: 09/499,468

Filed: February 7, 2000

For: Use of Vascular Endothelial **Growth Factor to Treat**

Photoreceptor Cells (as amended)

Confirmation No.: 1320

Art Unit:

1647

Examiner:

Landsman, Robert S.

Atty. Docket: 1488.100000F/EKS/HCC

Thirteenth Supplemental Information Disclosure Statement

Under 37 C.F.R. § 1.97(b)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms, PTO/SB/08A and PTO/SB/08B, are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Thirteenth Supplemental Information Disclosure Statement is a continuation of Applicants' Twelfth Supplemental Information Disclosure Statement filed on November 24, 2004 in connection with the above-captioned application.

Copies of documents FP1 to FP2 and NPL1 to NPL26 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of U.S. patents and patent application publications, documents US1 to US4, cited on the attached IDS Form PTO/SB/08A are not submitted.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication

dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Welewladon

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Helene C. Carlson Agent for Applicants

Registration No. 47,473

Date

1/27/06

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THIRTEENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Substitute form

Complete if Known

Application Number 09/499,468

Filing Date February 7, 2000

First Named Inventor Ralph Alderson

Art Unit 1647

Examiner Name Landsman, Robert S.

Attorney Docket Number 1488.100000F/EKS/HCC

(Use as many sheets as necessary)

Examiner Name

Language Sheet 1 of 1 Attorney Docket Number 14

U.S. PATENT DOCUMENTS Examiner Name of Patentee or **Publication Date** Pages, Columns, Lines, Document Number MM-DD-YYYY Applicant of Cited Document Where Relevant Passages Initials' No.1 Number-Kind Code^{2 (If Known)} or Relevant Figures Appear 08/03/1999 5,932,540 Hu et al. US1 5,935,820 08/10/1999 Hu et al. US2 6,645,933 11/11/2003 Alitalo et al. US3 2006/0014252 A1 01/19/2006 Lyman, Stewart D. US4 "77 "·

		Fo	REIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where	
		Country Code ³ Number ⁴ Kind Code ³ (if known)			Relevant Passages or Relevant Figures Appear	T ⁶
	FP1	WO 91/02058 A1	02/21/1991	California Biotechnology Inc.		·
	FP2	WO 00/75163 A1	12/14/2000	Human Genome Sciences, Inc.		
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Examiner	Date	
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Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449/PTO Complete if Known 09/499,468 Application Number THIRTEENTH SUPPLEMENTAL February 7, 2000 Filing Date INFORMATION DISCLOSURE Ralph Alderson First Named Inventor STATEMENT BY APPLICANT 1647 Art Unit (Use as many sheets as necessary) Landsman, Robert S. **Examiner Name** 1488.100000F/EKS/HCC Attorney Docket Number Sheet of

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T ²
	NPL1	Better, M., et al., "Escherichia coli Secretion of an Active Chimeric Antibody Fragment," Science 240:1041-1043, American Association for the Advancement of Science (1988)	7.* ·
	NPL2	Colwell, D.E., et al., "Method for Generating a High Frequency of Hybridomas Producing Monoclonal IgA Antibodies," Meth. Enzymol. 121:42-51, Academic Press, Inc. (1986)	
	NPL3	Danis, R.P., et al., "Anti-angiogenic therapy of proliferative diabetic retinopathy," Exp. Opin. Pharma. 2:395-407, Ashley Publications Ltd. (March 2001)	-
	NPL4	Enholm, B., et al., "Vascular Endothelial Growth Factor-C: A Growth Factor for Lymphatic and Blood Vascular Endothelial Cells," <i>Trends Cardiovasc. Med.</i> 8:292-297, Elsevier Science Inc. (October 1998)	
	NPL5	Ferrara, N., "Vascular Endothelial Growth Factor and the Regulation of angiogenesis," Recent Prog. Hormone Res. 55:15-36, The Endocrine Society (March 2000)	
	NPL6	Halin, C. and Neri, D., "Antibody-Based Targeting of Angiogenesis," Crit. Rev. Ther. Drug Carrier Syst. 18:299-339, Begell House, Inc. (August 2001)	
	NPL7	Hannink, M., et al., "Deletions in the C-Terminal Coding Region of the v-sis Gene: Dimerization Is Required for Transformation," Molec. Cell. Biol. 6:1304-1314, American Society for Microbiology (1986)	
	NPL8	Hirai, M., et al., "Expression of Vascular Endothelial Growth Factors (VEGF-A/VEGF-1 and VEGF-C/vVEGF-2) in Postmenopausal Uterine Endometrial Carcinoma," Gynecol. Oncol. 80:181-188, Academic Press (February 2001)	·
	NPL9	Houck, K.A., et al., "The Vascular Endothelial Growth Factor Family: Identification of a Fourth Molecular Species and Characterization of Alternative Splicing of RNA," Molec. Endocrinol. 5:1806-1814, Williams & Wilkins (1991)	
	NPL10	Joosten, V., "The production of antibody fragments and antibody fusion proteins by yeasts and filamentous fungi," <i>Microbial Cell Factories 2</i> :1-15, BioMed Central (January 2003)	

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Signature	Considered	

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			TOR EXPRISE A T	Application Number	09/499,468	
THIRTEENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	February 7, 2000	
				First Named Inventor	Ralph Alderson	
				Art Unit	1647	
			necessary)	Examiner Name	Landsman, Robert S.	
Sheet	2	of	3	Attorney Docket Number	1488.100000F/EKS/HCC	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL11	Longo, R., et al., "anti-angiogenic therapy: Rationale, challenges and clinical studies," Angiogenesis 5:237-256, Kluwer Academic Publishers (December 2002)	Œ.
	NPL12	Rudikoff, S., et al., "Single amino acid substitution altering antigen-binding specificity," Proc. Natl. Acad. Sci. USA 79:1979-1983, National Academy of Sciences (1982)	
	NPL13	Schlaeppi, JM., et al., "Characterization of a new potent, in vivo neutralizing monoclonal antibody to human vascular endothelial growth factor," J. Cancer Res. Clin. Oncol. 125:336-342, Springer-Verlag (May 1999)	
	NPL14	Schratzberger, P., et al., "Reversal of experimental diabetic neuropathy by VEGF gene transfer," J. Clin. Invest. 107:1083-1092, American Societies for Clinical Investigation (May 2001)	
	NPL15	Skerra, A. and Pluckthun, A., "Assembly of a Functional Immunoglobulin F _v Fragment in Escherichia coli," Science 240:1038-1041, American Association for the Advancement of Science (1988)	
	NPL16	Stacker, S.A. and Achen, M.G., "The Vascular Endothelial Growth Factor Family: Signalling for Vascular Development," <i>Growth Factors</i> 17:1-11, Harwood Academic Publishers (March 1999)	
·	NPL17	Vale, P.R., et al., "Randomized, Single-Blind, Placebo-Controlled Pilot Study of Catheter-Based Myocardial Gene Transfer for Therapeutic Angiogenesis using Left Ventricular Electromechanical Mapping in Patients With Chronic Mycardial Ischemia," Circulation 103:2138-2143, American Heart Association Inc. (May 2001)	
	NPL18	van der Flier, M., et al., "Antibody neutralization of vascular endothelial growth factor (VEGF) fails to attenuate vascular permeability and brain edema in experimental pneumococcal meningitis," J. Neuroimmunol. 160:170-177, Elsevier B.V. (March 2005)	•
	NPL19	Verma, I.M. and Somia, N., "Gene therapy - promises, problems and prospects," <i>Nature</i> 389:239-242, Macmillan Publishers Ltd. (1997)	
	NPL20	Walsh, D.A., "Angiogenesis and arthritis," <i>Rheumatology 38</i> :103-112, British Society for Rheumatology (February 1999)	

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	NPL21	Winkler, K., et al., "Changing the Antigen Binding Specificity by Single Point Mutations of an Anti-p24 (HIV-1) Antibody," J. Immunol. 165:4505-4514, The American Association of Immunologists (October 2000)	
	NPL22	NCBI Entrez, Accession No. AF010302, Mandriota S.J. and Pepper, M.S. (first available and last updated 1997)	
	NPL23	NCBI Entrez, Accession No. S08167, Paulsson, G. et al. (first available 1993 and last updated March 2005)	
	NPL24	Copy of Supplementary Partial European Search Report for European Application No. 02726730, mailed August 4, 2004, European Patent Office, Munich, GE	
	NPL25	Copy of Supplementary Partial European Search Report for European Application No. 02721715, mailed October 22, 2004, European Patent Office, Munich, GE	
	NPL26	Copy of Supplementary Partial European Search Report for European Application No. 02721715, mailed January 10, 2005, European Patent Office, Munich, GE	

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